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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1 1. (currently amended) In combination, a closed loop optical fiber for carrying
2 information modulated on at least two optical carriers, a first one of the carriers having a
3 first wavelength and a second one of the carriers having a second wavelength, at least
4 two nodes at a first one of which first information modulated on the first carrier and
5 second information modulated on the second carrier is to be recovered and transmitted,
6 the first node comprising a first demultiplexer for demultiplexing the first carrier from the
7 fiber, a second demultiplexer for demultiplexing the second carrier from the fiber, a first
8 multiplexer for multiplexing the first carrier on the fiber, a second multiplexer for
9 multiplexing the second carrier on the fiber, and apparatus for receiving and transmitting
10 first and second information, the apparatus for receiving and transmitting first and second
11 information comprising a first receiver for demodulating first information and a first
12 transmitter for modulating first information on the first carrier before the first carrier is
13 placed on the fiber by the first multiplexer, a second receiver for demodulating second
14 information and a second transmitter for modulating second information on the second
15 carrier before the second carrier is placed on the fiber by the second multiplexer, ~~and first~~
16 ~~and second switches~~, wherein when the first carrier is not capable of transmitting first
17 information over the fiber, the first information is modulated on the second carrier for
18 transmission over the fiber.

1 2. (currently amended) In combination, a closed loop optical fiber for carrying
2 information modulated on at least two optical carriers, a first one of the carriers having a
3 first wavelength and a second one of the carriers having a second wavelength, at least
4 two nodes at a first one of which first information modulated on the first carrier and

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5 second information modulated on the second carrier is to be recovered and transmitted,
6 the first node comprising a first demultiplexer for demultiplexing the first carrier from the
7 fiber, a second demultiplexer for demultiplexing the second carrier from the fiber, a first
8 multiplexer for multiplexing the first carrier on the fiber, a second multiplexer for
9 multiplexing the second carrier on the fiber, and apparatus for receiving and transmitting
10 first and second information, the apparatus for receiving and transmitting first and second
11 information comprising a first receiver for demodulating first information and a first
12 transmitter for modulating first information on the first carrier before the first carrier is
13 placed on the fiber by the first multiplexer, a second receiver for demodulating second
14 information and a second transmitter for modulating second information on the second
15 carrier before the second carrier is placed on the fiber by the second multiplexer, and first
16 and second switches, wherein each of the first and second switches having first and
17 second input ports and first and second output ports, each of the first and second switches
18 having first and second states, the first state of each of the first and second switches
19 coupling the respective first and second switch's first input port to its first output port and
20 its second input port to its second output port, the second state of each of the first and
21 second switches coupling the respective first and second switch's first input port to its
22 second output port and its second input port to its first output port, the first receiver
23 coupled to the first input port of the first switch, the second receiver coupled to the
24 second input port of the first switch, the second output port of the first switch being
25 coupled to the second input port of the second switch, the first output port of the second
26 switch being coupled to the first transmitter, the second output port of the second switch
27 being coupled to the second transmitter, wherein when the first carrier is not capable of
28 transmitting first information over the fiber, the first information is modulated on the
29 second carrier for transmission over the fiber.

1 3. (previously presented) The apparatus of claim 2 further comprising a third optical
2 carrier having a third wavelength, the first demultiplexer also removing the third carrier
3 from the fiber, the first multiplexer also placing the third carrier on the fiber, and
4 apparatus for receiving and transmitting third information, the apparatus for receiving
5 and transmitting third information comprising a third receiver for demodulating third

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6 information from the third carrier and a third transmitter for modulating third information
7 on the third carrier before the third carrier is placed on the fiber by the first multiplexer,
8 the fiber coupling the third carrier to the first demultiplexer and the first multiplexer
9 coupling the third carrier to the fiber.

1 4. (original) The apparatus of claim 3 wherein each of the first and second switches
2 has first, second and third input ports and first, second and third output ports, each of the
3 first and second switches having first, second, third and fourth states, the first state of
4 each of the first and second switches coupling its first input port to its first output port, its
5 second input port to its second output port, and its third input port to its third output port,
6 the second state of each of the first and second switches coupling its first input port to its
7 second output port, its second input port to its first output port and its third input port to
8 its third output port, the third state of each of the first and second switches coupling its
9 first input port to its first output port, its second input port to its third output port, and its
10 third input port to its second output port, and the fourth state of each of the first and
11 second switches coupling its first input port to its third output port, its third input port to
12 its first output port, and its second input port to its second output port, the first receiver
13 being coupled to the first input port of the first switch, the second receiver being coupled
14 to the second input port of the first switch and the third receiver being coupled to the
15 third input port of the first switch, the third output port of the first switch being coupled
16 to the third input port of the second switch, the node controlling the first and second
17 switches so that when one of the first and third carriers is not capable of transmitting a
18 respective one of first and third information over the fiber, the respective one of first and
19 third information is modulated on the second carrier for transmission over the fiber.

1 5. (original) The apparatus of claim 4 further comprising a fourth optical carrier
2 having a fourth wavelength, the fiber coupling the fourth optical carrier through at least
3 one of the first and second demultiplexers and through at least one of the first and second
4 multiplexers so that the fourth optical carrier passes through the first node unaffected.

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1 6. (original) The apparatus of claim 5 wherein the fiber couples the fourth optical
2 carrier through the first and second demultiplexers and through the first and second
3 multiplexers.

1 7. (original) The apparatus of claim 1 further comprising a third optical carrier
2 having a third wavelength, the fiber coupling the third optical carrier through at least one
3 of the first and second demultiplexers and through at least one of the first and second
4 multiplexers so that the third optical carrier passes through the first node unaffected.

1 8. (original) The apparatus of claim 7 wherein the fiber couples the third optical
2 carrier through both of the first and second demultiplexers and through both of the first
3 and second multiplexers so that the third optical carrier passes through the first node
4 unaffected.

1 9 - 22 (canceled).